X15815.ST25.txt
SEQUENCE LISTING

<110> Eli Lilly and Company

<120> Novel Proteins and Their Uses

<130> X-15815

<160> 24

<170> PatentIn version 3.2

<210> 1
<211> 1479
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1479)
<223> LP391

<400> 1
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aatccccgga gacttgaggg acctccgagt agaacctgtt acaactagtg ttgcaacagg 180

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gttgaaggcc accaagattt gtgtgacggg caaaagcaac ttccagtcct acagctgtgt 300

gaggtgcaat tacacagagg ccttccagac tcagaccaga ccctctggtg gtaaatggac 360

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catcgggttt tctcaggtgt ttgagccaca ccagaagaaa caaacgcgag cttcagtggt 660

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ggtttaccca tctgaaatat gtttccatca cacaatttgt tacttcactg aatttcttca 1020

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tgagaactct caagacctct tccccccttgc ctttaacctt ttctgcagtg atctaagaag 1260

ccagattcat ctgcacaaat acgtggtggt ctactttaga gagattgata caaaagacga 1320

ttacaatgct ctcagtgtct gccccaagta ccacctcatg aaggatgcca ctgctttctg 1380

tgcagaactt ctccatgtca agcagcaggt gtcagcagga aaaagatcac aagcctgcca 1440

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<212> PRT
<213> Homo sapiens

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Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
35 40 45

Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
50 55 60

Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
65 70 75 80

Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
85 90 95

Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
100 105 110

Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
115 120 125

Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
130 135 140

Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
145 150 155 160

Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
165 170 175

Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
180 185 190

Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
195 200 205

Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
210 215 220

Gly Asp Ser Glu Gly Ala Thr Val Gln Leu Thr Pro Tyr Phe Pro Thr
225 230 235 240

Cys Gly Ser Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro
245 250 255

Gln Thr Gly Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly
260 265 270

Gly Trp Leu Pro Leu Leu Leu Leu Ser Leu Leu Val Ala Thr Trp Val
275 280 285

Leu Val Ala Gly Ile Tyr Leu Met Trp Arg His Glu Arg Ile Lys Lys
290 295 300

Thr Ser Phe Ser Thr Thr Thr Leu Leu Pro Pro Ile Lys Val Leu Val
305 310 315 320

Val Tyr Pro Ser Glu Ile Cys Phe His His Thr Ile Cys Tyr Phe Thr
325 330 335

Glu Phe Leu Gln Asn His Cys Arg Ser Glu Val Ile Leu Glu Lys Trp
340 345 350

Gln Lys Lys Lys Ile Ala Glu Met Gly Pro Val Gln Trp Leu Ala Thr
355 360 365

Gln Lys Lys Ala Ala Asp Lys Val Val Phe Leu Leu Ser Asn Asp Val
370 375 380

Asn Ser Val Cys Asp Gly Thr Cys Gly Lys Ser Glu Gly Ser Pro Ser
385 390 395 400

Glu Asn Ser Gln Asp Leu Phe Pro Leu Ala Phe Asn Leu Phe Cys Ser
405 410 415

Asp Leu Arg Ser Gln Ile His Leu His Lys Tyr Val Val Val Tyr Phe
420 425 430

Arg Glu Ile Asp Thr Lys Asp Asp Tyr Asn Ala Leu Ser Val Cys Pro
435 440 445

Lys Tyr His Leu Met Lys Asp Ala Thr Ala Phe Cys Ala Glu Leu Leu
450 455 460

His Val Lys Gln Gln Val Ser Ala Gly Lys Arg Ser Gln Ala Cys His
465 470 475 480

Asp Gly Cys Cys Ser Leu
485

<210> 3
<211> 1614
<212> DNA
<213> Homo sapiens

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<223> LP392

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aatcccggga gacttgaggg acctccgagt agaacctgtt acaactagtg ttgcaacagg 180

ggactattca attttgatga atgtaagctg ggtactccgg gcagatgcca gcatccgctt 240

gttgaaggcc accaagattt gtgtgacggg caaaagcaac ttccagtcct acagctgtgt 300

gaggtgcaat tacacagagg ccttccagac tcagaccaga ccctctggtg gtaaatggac 360

attttcctac atcggcttcc ctgtagagct gaacacagtc tatttcattg gggcccataa 420

tattcctaat gcaaatatga atgaagatgg cccttccatg tctgtgaatt tcacctcacc 480

aggctgccta gaccacataa tgaaatataa aaaaaagtgt gtcaaggccg gaagcctgtg 540

ggatccgaac atcactgctt gtaagaagaa tgaggagaca gtagaagtga acttcacaac 600

cactcccctg ggaaacagat acatggctct tatccaacac agcactatca tcgggttttc 660

tcaggtgttt gagccacacc agaagaaaca aacgcgagct tcagtggtga ttccagtgac 720

tggggatagt gaaggtgcta cggtgcaggg acttgcatgt cctaaagcac tggctgaagg 780

aagccaagag gatcactgct gctccttttt tctagaggaa atgtttgtct acgtgctgac 840

tccatatttt cctacttgtg gcagcgactg catccgacat aaaggaacag ttgtgctctg 900

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aatgtggagg cacgaaagga tcaagaagac ttccttttct accaccacac tactgccccc 1080

cattaaggtt cttgtggttt acccatctga aatatgtttc catcacacaa tttgttactt 1140

cactgaattt cttcaaaacc attgcagaag tgaggtcatc cttgaaaagt ggcagaaaaa 1200

gaaaatagca gagatgggtc cagtgcagtg gcttgccact caaaagaagg cagcagacaa 1260

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atcacaagcc tgccacgatg gctgctgctc cttgtagccc acccatgaga agca 1614

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<212> PRT
<213> Homo sapiens

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<223> LP392

<400> 4

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Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
35 40 45

Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
50 55 60

Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
65 70 75 80

Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
85 90 95

Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
100 105 110

Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
115 120 125

Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
130 135 140

Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
145 150 155 160

Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala
165 170 175

Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
180 185 190

Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
195 200 205

Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
210 215 220

Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
225 230 235 240

Gly Asp Ser Glu Gly Ala Thr Val Gln Gly Leu Ala Cys Pro Lys Ala
245 250 255

Leu Ala Glu Gly Ser Gln Glu Asp His Cys Cys Ser Phe Phe Leu Glu
260 265 270

Glu Met Phe Val Tyr Val Leu Thr Pro Tyr Phe Pro Thr Cys Gly Ser
275 280 285

Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro Gln Thr Gly
290 295 300

Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly Gly Trp Leu
305 310 315 320

Pro Leu Leu Leu Leu Ser Leu Leu Val Ala Thr Trp Val Leu Val Ala
325 330 335

Gly Ile Tyr Leu Met Trp Arg His Glu Arg Ile Lys Lys Thr Ser Phe
340 345 350

Ser Thr Thr Thr Leu Leu Pro Pro Ile Lys Val Leu Val Val Tyr Pro
355 360 365

Ser Glu Ile Cys Phe His His Thr Ile Cys Tyr Phe Thr Glu Phe Leu
370 375 380

Gln Asn His Cys Arg Ser Glu Val Ile Leu Glu Lys Trp Gln Lys Lys
385 390 395 400

Lys Ile Ala Glu Met Gly Pro Val Gln Trp Leu Ala Thr Gln Lys Lys
405 410 415

Ala Ala Asp Lys Val Val Phe Leu Leu Ser Asn Asp Val Asn Ser Val
420 425 430

Cys Asp Gly Thr Cys Gly Lys Ser Glu Gly Ser Pro Ser Glu Asn Ser
435 440 445

Gln Asp Leu Phe Pro Leu Ala Phe Asn Leu Phe Cys Ser Asp Leu Arg
450 455 460

Ser Gln Ile His Leu His Lys Tyr Val Val Val Tyr Phe Arg Glu Ile
465 470 475 480

Asp Thr Lys Asp Asp Tyr Asn Ala Leu Ser Val Cys Pro Lys Tyr His
485 490 495

Leu Met Lys Asp Ala Thr Ala Phe Cys Ala Glu Leu Leu His Val Lys
500 505 510

Gln Gln Val Ser Ala Gly Lys Arg Ser Gln Ala Cys His Asp Gly Cys
515 520 525

Cys Ser Leu
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<213> Homo sapiens

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aatccccgga gacttgaggg acctccgagt agaacctgtt acaactagtg ttgcaacagg 180

ggactattca attttgatga atgtaagctg ggtactccgg gcagatgcca gcatccgctt 240

gttgaaggcc accaagattt gtgtgacggg caaaagcaac ttccagtcct acagctgtgt 300

gaggtgcaat tacacagagg ccttccagac tcagaccaga ccctctggtg gtaaatggac 360

attttcctac atcggcttcc ctgtagagct gaacacagtc tatttcattg gggcccataa 420

tattcctaat gcaaatatga atgaagatgg cccttccatg tctgtgaatt tcacctcacc 480

aggctgccta gaccacataa tgaaatataa aaaaaagtgt gtcaaggccg gaagcctgtg 540

ggatccgaac atcactgctt gtaagaagaa tgaggagaca gtagaagtga acttcacaac 600

cactcccctg ggaaacagat acatggctct tatccaacac agcactatca tcgggttttc 660

tcaggtgttt gagccacacc agaagaaaca aacgcgagct tcagtggtga ttccagtgac 720

tggggatagt gaaggtgcta cggtgcagct gactccatat tttcctactt gtggcagcga 780

ctgcatccga cataaaggaa cagttgtgct ctgcccacaa acaggcgtcc ctttccctct 840

ggataacaac aaaagcaagc cgggaggctg gctgcctctc ctcctgctgt ctctgctggt 900

ggccacatgg gtgctggtgg cagggatcta tctaatgtgg aggcacggat caagaagact 960

tccttttcta ccaccacact actgcccccc attaaggttc ttgtggttta cccatctgaa 1020

atatgtttcc atcacacaat ttgttacttc actgaatttc ttcaaaacca ttgcagaagt 1080

gaggtcatcc ttgaaaagtg gcagaaaaag aaaatagcag agatgggtcc agtgcagtgg 1140

cttgccactc aaaagaaggc agcagacaaa gtcgtcttcc ttctttccaa tgacgtcaac 1200

agtgtgtgcg atggtacctg tggcaagagc gagggcagtc ccagtgagaa ctctcaagac 1260

ctcttccccc ttgcctttaa ccttttctgc agtgatctaa gaagccagat tcatctgcac 1320

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<210> 6
<211> 371
<212> PRT
<213> Homo sapiens

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<223> LP393

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Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
35 40 45

Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
50 55 60

Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
65 70 75 80

Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
85 90 95

Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
100 105 110

Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
115 120 125

Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
130 135 140

Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
145 150 155 160

Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala
165 170 175

Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
180 185 190

Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
195 200 205

Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
210 215 220

Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
225 230 235 240

Gly Asp Ser Glu Gly Ala Thr Val Gln Leu Thr Pro Tyr Phe Pro Thr
245 250 255

Cys Gly Ser Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro
260 265 270

Gln Thr Gly Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly
275 280 285

Gly Trp Leu Pro Leu Leu Leu Leu Ser Leu Leu Val Ala Thr Trp Val
290 295 300

Leu Val Ala Gly Ile Tyr Leu Met Trp Arg His Gly Ser Arg Arg Leu
305 310 315 320

Pro Phe Leu Pro Pro His Tyr Cys Pro Pro Leu Arg Phe Leu Trp Phe
325 330 335

Thr His Leu Lys Tyr Val Ser Ile Thr Gln Phe Val Thr Ser Leu Asn
340 345 350

Phe Phe Lys Thr Ile Ala Glu Val Arg Ser Ser Leu Lys Ser Gly Arg
355 360 365

Lys Arg Lys
370

<210> 7
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<212> DNA
<213> Homo sapiens

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<223> LP394

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aatcccggga gacttgaggg acctccgagt agaacctgtt acaactagtg ttgcaacagg 180

ggactattca attttgatga atgtaagctg ggtactccgg gcagatgcca gcatccgctt 240

gttgaaggcc accaagattt gtgtgacggg caaaagcaac ttccagtcct acagctgtgt 300

gaggtgcaat tacacagagg ccttccagac tcagaccaga ccctctggtg gtaaatggac 360

attttcctac atcggcttcc ctgtagagct gaacacagtc tatttcattg gggcccataa 420

tattcctaat gcaaatatga atgaagatgg cccttccatg tctgtgaatt tcacctcacc 480

aggctgccta gaccacataa tgaaatataa aaaaaagtgt gtcaaggccg gaagcctgtg 540

ggatccgaac atcactgctt gtaagaagaa tgaggagaca gtagaagtga acttcacaac 600

cactcccctg ggaaacagat acatggctct tatccaacac agcactatca tcgggttttc 660

tcaggtgttt gagccacacc agaagaaaca aacgcgagct tcagtggtga ttccagtgac 720

tggggatagt gaaggtgcta cggtgcagct gactccatat tttcctactt gtggcagcga 780

ctgcatccga cataaaggaa cagttgtgct ctgcccacaa acaggcgtcc ctttccctct 840

ggataacaac aaaagcaagc cgggaggctg gctgcctctc ctcctgctgt ctctgctggt 900

ggccacatgg gtgctggtgg cagggatcta tctaatgtgg aggcacgaag tgaggtcatc 960

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aagtaccacc tcatgaagga tgccactgct ttctgtgcag aacttctcca tgtcaagcag 1320

caggtgtcag caggaaaaag atcacaagcc tgccacgatg gctgctgctc cttgtagccc 1380

acccatgaga agca 1394

<210> 8
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<212> PRT
<213> Homo sapiens

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<222> (1)..(328)
<223> LP394

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Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
35 40 45

Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
50 55 60

Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
65 70 75 80

Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
85 90 95

Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
100 105 110

Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
115 120 125

Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
130 135 140

Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
145 150 155 160

Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala
165 170 175

Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
180 185 190

Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
195 200 205

Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
210 215 220

Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
225 230 235 240

Gly Asp Ser Glu Gly Ala Thr Val Gln Leu Thr Pro Tyr Phe Pro Thr
245 250 255

Cys Gly Ser Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro
260 265 270

Gln Thr Gly Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly
275 280 285

Gly Trp Leu Pro Leu Leu Leu Leu Ser Leu Leu Val Ala Thr Trp Val
290 295 300

Leu Val Ala Gly Ile Tyr Leu Met Trp Arg His Glu Val Arg Ser Ser
305 310 315 320

Leu Lys Ser Gly Arg Lys Arg Lys
325

<210> 9
<211> 1346
<212> DNA
<213> Homo sapiens

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<223> LP395

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attttcctat atcggcttcc ctgtagagct gaacacagtc tatttcattg gggcccataa 420
tattcctaat gcaaatatga atgaagatgg cccttccatg tctgtgaatt tcacctcacc 480
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gattccagtg actggggata gtgaaggtgc tacggtgcag ctgactccat attttcctac 720
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tggcttgcca ctcaaaagaa ggcagcagac aaagtcgtct tccttctttc caatgacgtc 1020
aacagtgtgt gcgatggtac ctgtggcaag agcgagggca gtcccagtga gaactctcaa 1080
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cacaaatacg tggtggtcta ctttagagag attgatacaa aagacgatta caatgctctc 1200
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tccttgtagc ccacccatga gaagca 1346

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<212> PRT
<213> Homo sapiens

<220>
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<222> (1)..(312)
<223> LP395

<400> 10

Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
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20 25 30

Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
35 40 45

Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
50 55 60

Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
65 70 75 80

Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
85 90 95

Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
100 105 110

Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
115 120 125

Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
130 135 140

Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
145 150 155 160

Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
165 170 175

Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
180 185 190

Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
195 200 205

Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
210 215 220

Gly Asp Ser Glu Gly Ala Thr Val Gln Leu Thr Pro Tyr Phe Pro Thr
225 230 235 240

Cys Gly Ser Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro
245 250 255

Gln Thr Gly Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly
260 265 270

Gly Trp Leu Pro Leu Leu Leu Leu Ser Leu Leu Val Ala Thr Trp Val
275 280 285

Leu Val Ala Gly Ile Tyr Leu Met Trp Arg His Glu Val Arg Ser Ser
290 295 300

Leu Lys Ser Gly Arg Lys Arg Lys
305 310

<210> 11
<211> 1567
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1567)
<223> LP396

<400> 11
gatgtcgctc gtgctgctaa gcctggccgc gctgtgcagg agcgccgtac cccgagagcc 60

gaccgttcaa tgtggctctg aaactgggcc atctccagag tggatgctac aacatgatct 120

aatccccgga gacttgaggg acctccgagt agaacctgtt acaactagtg ttgcaacagg 180

ggactattca attttgatga atgtaagctg ggtactccgg gcagatgcca gcatccgctt 240

gttgaaggcc accaagattt gtgtgacggg caaaagcaac ttccagtcct acagctgtgt 300

gaggtgcaat tacacagagg ccttccagac tcagaccaga ccctctggtg gtaaatggac 360

attttcctac atcggcttcc ctgtagagct gaacacagtc tatttcattg gggcccataa 420

tattcctaat gcaaatatga atgaagatgg cccttccatg tctgtgaatt tcacctcacc 480

aggctgccta gaccacataa tgaaatataa aaaaaagtgt gtcaaggccg gaagcctgtg 540

ggatccgaac atcactgctt gtaagaagaa tgaggagaca gtagaagtga acttcacaac 600

cactcccctg ggaaacagat acatggctct tatccaacac agcactatca tcgggttttc 660

tcaggtgttt gagccacacc agaagaaaca aacgcgagct tcagtggtga ttccagtgac 720

tggggatagt gaaggtgcta cggtgcagat gtgtgaccaa ggggaaaatg tgcatgacaa 780

cactagagct gactccatat tttcctactt gtggcagcga ctgcatccga cataaaggaa 840

cagttgtgct ctgcccacaa acaggcgtcc ctttccctct ggataacaac aaaagcaagc 900

cgggaggctg gctgcctctc ctcctgctgt ctctgctggt ggccacatgg gtgctggtgg 960

cagggatcta tctaatgtgg aggcacgaaa ggatcaagaa gacttccctt tctaccacca 1020

cactactgcc ccccattaag gttcttgtgg tttacccatc tgaaatatgt ttccatcaca 1080

caatttgtta cttcactgaa tttcttcaaa accattgcag aagtgaggtc atccttgaaa 1140

agtggcagaa aaagaaaata gcagagatgg gtccagtgca gtggcttgcc actcaaaaga 1200

aggcagcaga caaagtcgtc ttccttcttt ccaatgacgt caacagtgtg tgcgatggta 1260

cctgtggcaa gagcgagggc agtcccagtg agaactctca agacctcttc ccccttgcct 1320

ttaacctttt ctgcagtgat ctaagaagcc agattcatct gcacaaatac gtggtggtct 1380

actttagaga gattgataca aaagacgatt acaatgctct cagtgtctgc cccaagtacc 1440

acctcatgaa ggatgccact gctttctgtg cagaacttct ccatgtcaag cagcaggtgt 1500

cagcaggaaa aagatcacaa gcctgccacg atggctgctg ctccttgtag cccacccatg 1560

agaagca 1567

<210> 12
<211> 277
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(277)
<223> LP396

<400> 12

Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
1 5 10 15

Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Gly Pro Ser Pro
20 25 30

Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
35 40 45

Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
50 55 60

Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
65 70 75 80

Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
85 90 95

Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
100 105 110

Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
115 120 125

Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
130 135 140

Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
145 150 155 160

Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala
165 170 175

Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
180 185 190

Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
195 200 205

Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
210 215 220

Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
225 230 235 240

Gly Asp Ser Glu Gly Ala Thr Val Gln Met Cys Asp Gln Gly Glu Asn
245 250 255

Val His Asp Asn Thr Arg Ala Asp Ser Ile Phe Ser Tyr Leu Trp Gln
260 265 270

Arg Leu His Pro Thr
275

<210> 13
<211> 1352
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1352)
<223> LP397

<400> 13
gatgtcgctc gtgctgctaa gcctggccgc gctgtgcagg agcgccgtac cccgagagcc 60

gaccgttcaa tgtggctctg aaactgggcc atctccagag tggatgctac aacatgatct 120

aatcccggga gacttgaggg acctccgagt agaacctgtt acaactagtg ttgcaacagg 180

ggactattca attttgatga atgtaagctg ggtactccgg gcagatgcca gcatccgctt 240

gttgaaggcc accaagattt gtgtgacggg caaaagcaac ttccagtcct acagctgtgt 300

gaggtgcaat tacacagagg ccttccagac tcagaccaga ccctctggtg gtaaatggac 360

attttcctac atcggcttcc ctgtagagct gaacacagtc tatttcattg gggcccataa 420

tattcctaat gcaaatatga atgaagatgg cccttccatg tctgtgaatt tcacctcacc 480

aggctgccta gaccacataa tgaaatataa aaaaaagtgt gtcaaggccg gaagcctgtg 540

ggatccgaac atcactgctt gtaagaagaa tgaggagaca gtagaagtga acttcacaac 600

cactcccctg ggaaacagat acatggctct tatccaacac agcactatca tcgggttttc 660

tcaggtgttt gagacaaaag caagccggga ggctggctgc ctctcctcct gctgtctctg 720

ctggtggcca catgggtgct ggtggcaggg atctatctaa tgtggaggca cgaaaggatc 780

aagaagactt ccttttctac caccacacta ctgccccca ttaaggttct tgtggtttac 840

ccatctgaaa tatgtttcca tcacacaatt tgttacttca ctgaatttct tcaaaaccat 900

tgcagaagtg aggtcatcct tgaaaagtgg cagaaaaaga aaatagcaga gatgggtcca 960

gtgcagtggc ttgccactca aaagaaggca gcagacaaag tcgtcttcct tctttccaat 1020

gacgtcaaca gtgtgtgcga tggtacctgt ggcaagagcg agggcagtcc cagtgagaac 1080

tctcaagacc tcttcccccc tgcctttaac cttttctgca gtgatctaag aagccagatt 1140

catctgcaca aatacgtggt ggtctacttt agagagattg atacaaaaga cgattacaat 1200

gctctcagtg tctgccccaa gtaccacctc atgaaggatg ccactgcttt ctgtgcagaa 1260

cttctccatg tcaagcagca ggtgtcagca ggaaaaagat cacaagcctg ccacgatggc 1320

tgctgctcct tgtagcccac ccatgagaag ca 1352

<210> 14
<211> 252
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(252)
<223> LP397

<400> 14

Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
1 5 10 15

Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Gly Pro Ser Pro
20 25 30

Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
35 40 45

Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
50 55 60

Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
65 70 75 80

Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
85 90 95

Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
100 105 110

Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
115 120 125

Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
130 135 140

Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
145 150 155 160

Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala
165 170 175

Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
180 185 190

Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
195 200 205

Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
210 215 220

Thr Lys Ala Ser Arg Glu Ala Gly Cys Leu Ser Ser Cys Cys Leu Cys
225 230 235 240

Trp Trp Pro His Gly Cys Trp Trp Gln Gly Ser Ile
245 250

<210> 15
<211> 1399
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1399)
<223> LP398

<400> 15
gatgtcgctc gtgctgctaa gcctggccgc gctgtgcagg agcgccgtac cccgagagcc 60

gaccgttcaa tgtggctctg aaactgggcc atctccagag tggatgctac aacatgatct 120

aatcccggga gacttgaggg acctccgagt agaacctgtt acaactagtg ttgcaacagg 180

ggactattca attttgatga atgtaagctg ggtactccgg gcagatgtgg acattttcct 240

acatcggctt ccctgtagag ctgaacacag tctatttcat tggggcccat aatattccta 300

atgcaaatat gaatgaagat ggcccttcca tgtctgtgaa tttcacctca ccaggctgcc 360

tagaccacat aatgaaatat aaaaaaaagt gtgtcaaggc cggaagcctg tgggatccga 420

acatcactgc ttgtaagaag aatgaggaga cagtagaagt gaacttcaca accactcccc 480

tgggaaacag atacatggct cttatccaac acagcactat catcgggttt tctcaggtgt 540

ttgagccaca ccagaagaaa caaacgcgag cttcagtggt gattccagtg actggggata 600

gtgaaggtgc tacggtgcag ctgactccat attttcctac ttgtggcagc gactgcatcc 660

gacataaagg aacagttgtg ctctgcccac aaacaggcgt ccctttccct ctggataaca 720

acaaaagcaa gccgggaggc tggctgcctc tcctcctgct gtctctgctg gtggccacat 780

gggtgctggt ggcagggatc tatctaatgt ggaggcacga aaggatcaag aagacttcct 840

tttctaccac cacactactg ccccccatta aggttcttgt ggtttaccca tctgaaatat 900

gtttccatca cacaatttgt tacttcactg aatttcttca aaaccattgc agaagtgagg 960

tcatccttga aaagtggcag aaaaagaaaa tagcagagat gggtccagtg cagtggcttg 1020

ccactcaaaa gaaggcagca gacaaagtcg tcttccttct ttccaatgac gtcaacagtg 1080

tgtgcgatgg tacctgtggc aagagcgagg gcagtcccag tgagaactct caagacctct 1140

tccccccttgc ctttaacctt ttctgcagtg atctaagaag ccagattcat ctgcacaaat 1200

acgtggtggt ctactttaga gagattgata caaaagacga ttacaatgct ctcagtgtct 1260

gccccaagta ccacctcatg aaggatgcca ctgctttctg tgcagaactt ctccatgtca 1320

agcagcaggt gtcagcagga aaaagatcac aagcctgcca cgatggctgc tgctccttgt 1380

agcccaccca tgagaagca 1399

<210> 16
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(96)
<223> LP398

<400> 16

Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
1 5 10 15

Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Gly Pro Ser Pro
20 25 30

Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
35 40 45

Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
50 55 60

Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Val Asp Ile Phe Leu
65 70 75 80

His Arg Leu Pro Cys Arg Ala Glu His Ser Leu Phe His Trp Gly Pro
85 90 95

<210> 17
<211> 1081
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1081)
<223> LP399

<400> 17
gatgtcgctc gtgctgctaa gcctggccgc gctgtgcagg agcgccgtac cccgagagcc 60

gaccgttcaa tgtggctctg aaactgggcc atctccagag tggatgctac aacatgatct 120

aatccccgga gacttgaggg acctccgagt agaacctgtt acaactagtg ttgcaacagg 180

ggactattca attttgatga atgtaagctg ggtactccgg gcagatgcca caccagaaga 240

aacaaacgcg agcttcagtg gtgattccag tgactgggga tagtgaaggt gctacggtgc 300

agctgactcc atattttcct acttgtggca gcgactgcat ccgacataaa ggaacagttg 360

tgctctgccc acaaacaggc gtccctttcc ctctggataa caacaaaagc aagccgggag 420

gctggctgcc tctcctcctg ctgtctctgc tggtggccac atgggtgctg gtggcaggga 480

tctatctaat gtggaggcac gaaaggatca agaagacttc cttttctacc accacactac 540

tgccccccat taaggttctt gtggtttacc catctgaaat atgtttccat cacacaattt 600

gttacttcac tgaatttctt caaaaccatt gcagaagtga ggtcatcctt gaaaagtggc 660

agaaaaagaa aatagcagag atgggtccag tgcagtggct tgccactcaa aagaaggcag 720

cagacaaagt cgtcttcctt ctttccaatg acgtcaacag tgtgtgcgat ggtacctgtg 780

gcaagagcga gggcagtccc agtgagaact ctcaagacct cttccccctt gcctttaacc 840

ttttctgcag tgatctaaga agccagattc atctgcacaa atacgtggtg gtctacttta 900

gagagattga tacaaaagac gattacaatg ctctcagtgt ctgccccaag taccacctca 960

tgaaggatgc cactgctttc tgtgcagaac ttctccatgt caagcagcag gtgtcagcag 1020

gaaaaagatc acaagcctgc cacgatggct gctgctcctt gtagcccacc catgagaagc 1080

a 1081

<210> 18
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(93)
<223> LP399

<400> 18

Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
1 5 10 15

Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Gly Pro Ser Pro
20 25 30

Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
35 40 45

Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
50 55 60

Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Thr Pro Glu Glu
65 70 75 80

Thr Asn Ala Ser Phe Ser Gly Asp Ser Ser Asp Trp Gly
85 90

<210> 19
<211> 940
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(940)
<223> LP417

<400> 19
gatgtcgctc gtgctgctaa gcctggccgc gctgtgcagg agcgccgtac cccgagagcc 60

gaccgttcaa tgtggctctg aaactgccac accagaagaa acaaacgcga gcttcagtgg 120

tgattccagt gactggggat agtgaaggtg ctacggtgca gctgactcca tattttccta 180

cttgtggcag cgactgcatc cgacataaag gaacagttgt gctctgccca caaacaggcg 240

tccctttccc tctggataac aacaaaagca agccgggagg ctggctgcct ctcctcctgc 300

tgtctctgct ggtggccaca tgggtgctgg tggcagggat ctatctaatg tggaggcacg 360

aaaggatcaa gaagacttcc ttttctacca ccacactact gccccccatt aaggttcttg 420

tggtttaccc atctgaaata tgtttccatc acacaatttg ttacttcact gaatttcttc 480

aaaaccattg cagaagtgag gtcatccttg aaaagtggca gaaaaagaaa atagcagaga 540

tgggtccagt gcagtggctt gccactcaaa agaaggcagc agacaaagtc gtcttccttc 600

tttccaatga cgtcaacagt gtgtgcgatg gtacctgtgg caagagcgag ggcagtccca 660

gtgagaactc tcaagacctc ttccccccttg cctttaacct tttctgcagt gatctaagaa 720

gccagattca tctgcacaaa tacgtggtgg tctactttag agagattgat acaaaagacg 780

attacaatgc tctcagtgtc tgccccaagt accacctcat gaaggatgcc actgctttct 840

gtgcagaact tctccatgtc aagcagcagg tgtcagcagg aaaaagatca caagcctgcc 900

acgatggctg ctgctccttg tagcccaccc atgagaagca 940

<210> 20
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(46)
<223> LP417

<400> 20

Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
1 5 10 15

Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Ala Thr Pro Glu
20 25 30

Glu Thr Asn Ala Ser Phe Ser Gly Asp Ser Ser Asp Trp Gly
35 40 45

<210> 21
<211> 1352
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1352)
<223> LP418

<400> 21
gatgtcgctc gtgctgctaa gcctggccgc gctgtgcagg agcgccgtac cccgagagcc 60

gaccgttcaa tgtggctctg aaactgggcc atctccagag tggatgctac aacatgatct 120

aatcccggga gacttgaggg acctccgagt agaacctgtt acaactagtg ttgcaacagg 180

ggactattca attttgatga atgtaagctg ggtactccgg gcagatgcca gcatccgctt 240

gttgaaggcc accaagattt gtgtgacggg caaaagcaac ttccagtcct acagctgtgt 300

gaggtgcaat tacacagagg ccttccagac tcagaccaga ccctctggtg gtaaagaagc 360

ctgtgggatc cgaacatcac tgcttgtaag aagaatgagg agacagtaga agtgaacttc 420

acaaccactc ccctgggaaa cagatacatg gctcttatcc aacacagcac tatcatcggg 480

ttttctcagg tgtttgagcc acaccagaag aaacaaacgc gagcttcagt ggtgattcca 540

gtgactgggg atagtgaagg tgctacggtg cagctgactc catattttcc tacttgtggc 600

agcgactgca tccgacataa aggaacagtt gtgctctgcc cacaaacagg cgtccctttc 660

cctctggata acaacaaaag caagccggga ggctggctgc ctctcctcct gctgtctctg 720

ctggtggcca catgggtgct ggtggcaggg atctatctaa tgtggaggca cgaaaggatc 780

aagaagactt ccttttctac caccacacta ctgcccccca ttaaggttct tgtggtttac 840

ccatctgaaa tatgtttcca tcacacaatt tgttacttca ctgaatttct tcaaaaccat 900

tgcagaagtg aggtcatcct tgaaaagtgg cagaaaaaga aaatagcaga gatgggtcca 960

gtgcagtggc ttgccactca aaagaaggca gcagacaaag tcgtcttcct tctttccaat 1020

gacgtcaaca gtgtgtgcga tggtacctgt ggcaagagcg agggcagtcc cagtgagaac 1080

tctcaagacc tcttcccccc tgcctttaac cttttctgca gtgatctaag aagccagatt 1140

catctgcaca aatacgtggt ggtctacttt agagagattg atacaaaaga cgattacaat 1200

gctctcagtg tctgccccaa gtaccacctc atgaaggatg ccactgcttt ctgtgcagaa 1260

cttctccatg tcaagcagca ggtgtcagca ggaaaaagat cacaagcctg ccacgatggc 1320

tgctgctcct tgtagcccac ccatgagaag ca 1352

<210> 22
<211> 135
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(135)
<223> LP418

<400> 22

Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
1 5 10 15

Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Gly Pro Ser Pro
20 25 30

Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
35 40 45

Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
50 55 60

Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
65 70 75 80

Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
85 90 95

Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
100 105 110

Arg Pro Ser Gly Gly Lys Glu Ala Cys Gly Ile Arg Thr Ser Leu Leu
115 120 125

Val Arg Arg Met Arg Arg Gln
130 135

<210> 23
<211> 1210
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1210)
<223> LP419

<400> 23
gatgtcgctc gtgctgctaa gcctggccgc gctgtgcagg agcgccgtac cccgagagcc 60

gaccgttcaa tgtggctctg aaactgtgga cattttccta tatcggcttc cctgtagagc 120

tgaacacagt ctatttcatt ggggcccata atattcctaa tgcaaatatg aatgaagatg 180

gcccttccat gtctgtgaat ttcacctcac caggaagcct gtgggatccg aacatcactg 240

cttgtaagaa gaatgaggag acagtagaag tgaacttcac aaccactccc ctgggaaaca 300

gatacatggc tcttatccaa cacagcacta tcatcgggtt ttctcaggtg tttgagccac 360

accagaagaa acaaacgcga gcttcagtgg tgattccagt gactggggat agtgaaggtg 420

ctacggtgca gctgactcca tattttccta cttgtggcag cgactgcatc cgacataaag 480

gaacagttgt gctctgccca caaacaggcg tccctttccc tctggataac aacaaaagca 540

agccgggagg ctggctgcct ctcctcctgc tgtctctgct ggtggccaca tgggtgctgg 600

tggcagggat ctatctaatg tggaggcacg aaaggatcaa gaagacttcc ttttctacca 660

ccacactact gccccccatt aaggttcttg tggtttaccc atctgaaata tgtttccatc 720

acacaatttg ttacttcact gaatttcttc aaaaccattg cagaagtgag gtcatccttg 780

aaaagtggca gaaaaagaaa atagcagaga tgggtccagt gcagtggctt gccactcaaa 840

agaaggcagc agacaaagtc gtcttccttc tttccaatga cgtcaacagt gtgtgcgatg 900

gtacctgtgg caagagcgag ggcagtccca gtgagaactc tcaagacctc ttcccccttg 960

cctttaacct tttctgcagt gatctaagaa gccagattca tctgcacaaa tacgtggtgg 1020

tctactttag agagattgat acaaaagacg attacaatgc tctcagtgtc tgccccaagt 1080

accacctcat gaaggatgcc actgctttct gtgcagaact tctccatgtc aagcagcagg 1140

tgtcagcagg aaaaagatca caagcctgcc acgatggctg ctgctccttg tagcccaccc 1200

atgagaagca 1210

<210> 24
<211> 49
<212> PRT
<213> Homo sapiens

<220>
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Pro